

Introductions



ESTHER MORRIS, P.E.

CREB Projects, DES Single Point of Contact

JAMES DAVIS, P.E.

Deputy Division Chief, Structure Design Services

STEVE SCHOFF, P.E.

Office Chief, Office of Electrical, Mechanical, Water and Wastewater Engineering

BLAIR ANDERSON, P.E.

Branch Chief, Structure Office Engineer

KRIS KUHL, P.E.

Office Chief, Office of Contract Awards and Services

LINDY WILSON

Branch Chief, Division of Procurement and Contracts

VICTOR SALAZAR, P.E.

Office Chief, Office of Risk Management

ANN BLAZINA

Coordinator, District Small Business Liaison

Project Website





Presentation Overview



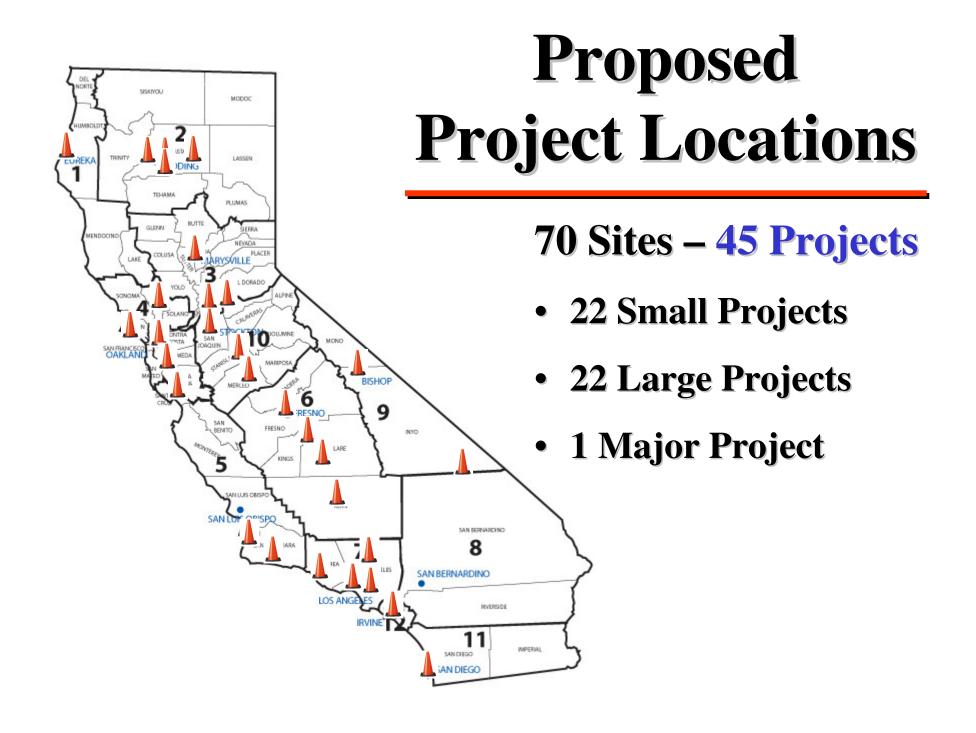
- Project Summary
- Project Specifications
- Contracts Over \$147,000
- Contracts Under \$147,000
- Insurance Requirements
- How to do Business with Caltrans
- Questions







Steve Schoff, P.E.



ORIGINAL CREB (Clean Renewable Energy Bond) Project List**

Dist	Lead Unit	Project	Address	City	Est PV Project Scope KW AC	Rough Cost x 1000		Dist	Lead Unit	Project	Address	City	Est PV Project Scope KW AC	Rough Cost x 1000
01	Facilities	District 1 Office Bldg.	1656 Union St.	Eureka, CA	91.50	\$791		06	Facilities	6. District 6 Office Bldg.	1352 West Olive St.	Fresno, CA	89.25	\$771
01	Maintenance	Bracut Maintenance Station	6100 Highway 101 North	Eureka, CA	60.00	\$519		06	Div. Equipt	24. Equipment Building #12 (2602)	1200 Olive Avenue	Bakersfield, CA	42.00	\$363
01	Div. Equipt	13. Equipment Building #1 (2101)		Eureka, CA	37.50				Div. Equipt	23. Equipment Building #11 (2601)	1385 North West Avenue	Fresno, CA	35.25	
01		47. District 1 - Maint. Facility 1	1835 6th Street	Eureka, CA	25.00				Maintenance	97. District 6 - Maint. Facility 4	700 East Murray	Visalia, CA	25.00	
01	Maintenance	49. District 1 - Maint. Facility 3	90 W. Lake Mendocino Drive	Ukiah, CA	25.00				Maintenance Maintenance	96. District 6 - Maint. Facility 3	1635 W. Pine Avenue 805 South Lexington	Fresno, CA Delano, CA	22.00 15.00	
00	Maintananaa	Durney Maintenance Station	27224 Main Street	Burney CA	239.00			ļ	Maintenance	95. District 6 - Maint. Facility 2			ļ	
02	SRRA	Burney Maintenance Station Herbert Miles SRRA	37334 Main Street Route 5, PM 34.7	Burney, CA Tehema County, CA	9.00				Maintenance	Lebec Maintenance Station Porterville Maintenance Station	36282 Golden State Highway 1331 South Second Street	Lebec, CA Porterville, CA	10.00	
02	Maintenance	Weaverville Maintenance Station	203 Memorial Avenue	Weaverville, CA	8.00	\$69		06	SRRA	Phillip Raine SRRA	About 4.0 Miles North Of Route 190 At	Tulare County	10.00	\$86
					37.00	\$320					Tipton		258.50	\$2,234
03	Div. Equipt	10. Division of Equipment Bldg.	1805 34th St.	Sacramento, CA	153.00	\$1,322		07	Labs	36. M&R Laboratory #5	1615 Wall Street	Los Angeles, CA	42.75	\$369
03	Labs	11. Main Lab Bldg (Translab)	5900 Folsom Blvd.	Sacramento, CA	153.00	\$1,322		07	Maintenance	101. District 7 - Maint. Facility 3	7300 East Bandini Blvd.	Commerce, CA	36.75	\$318
03	Div. Equipt	17. Equipment Building #5 (2301)	981 North Beale Road	Marysville, CA	90.00	\$778		07	Maintenance	Newhall Maintenance Station	28820 North The Old Road	Valencia, CA	36.00	\$311
03	Maintenance	Sunrise Maintenance Station	11325 Sanders Drive	Rancho Cordova, CA	30.00			07	Maintenance	100. District 7 - Maint. Facility 2	4821 Adohr Lane	Camarillo, CA	30.00	
03	Maintenance	55. District 3 - Maint. Facility 2	2535 Notre Dame Blvd.	Chico, CA	25.00	\$216		07	Maintenance	99. District 7 - Maint. Facility 1	2122 N. Windsor	Altadena, CA	25.00	\$216
03		54. District 3 - Maint. Facility 1	1050 Grass Valley Hwy.	Auburn, CA	15.00				Div. Equipt	26. Equipment Building #14 (2702)	7301 E. Slauson Avenue	Commerce, CA	25.00	
03		Elk Grove Maintenance Station	9087 Elkmont Way	Elk Grove, CA	10.00			·	Maintenance	103. District 7 - Maint. Facility 5	<u> </u>	Monrovia, CA	20.00	
03	SRRA	Willows SRRA	8 km North Of Willows	Glenn County	3.75				Maintenance	Chilao Maintenance Station	Star Route	La Canada, CA	12.00	
					479.75	\$4,146		07	Maintenance	108. District 7 - Maint. Facility 10	5660 Reseda Blvd.	Tarzana, CA	10.00	\$86
04	Div. Equipt	19. Equipment Building #7 (2401)	1993 Marina Blvd.	San Leandro, CA	45.00	\$389							237.50	\$2,053
04		68. District 4 - Maint. Facility 1	100 Industrial Way	Benicia, CA	30.00			08	Div. Equipt	27. Equipment Building #15 (2802)	1800 Dill Road	Barstow, CA	25.00	\$216
04		69. District 4 - Maint. Facility 2	Carquinez Toll Plaza	Crockett, CA	30.00							la:		
04		82. District 4 - Maint. Facility 15 74. District 4 - Maint. Facility 7	600 Lewelling Blvd. 55000 West Jackson St.	San Leandro, CA Hayward, CA	30.00 23.25			ļ	Facilities Maintenance	7. District 9 Office Building 111. District 9 - Maint. Facility 1	500 S. Main St. 1250 Spruce Street	Bishop, CA Bishop, CA	90.75 35.00	
04	Maintenance	South San Jose Maintenance Station	45736 Monterey Road	San Jose, CA	20.00				Maintenance	Shoshone Maintenance Station	Junction Of Routes 127 And 178	Shoshone, CA	15.00	
04	Maintenance	†	2616 N. Main Street	Walnut Creek, CA	20.00	\$173					•		140.75	\$1,216
04	Maintenance	70. District 4 - Maint. Facility 3	10130 Bubb Road	Cupertino, CA	15.00	\$130		10	Maintenance	Shop 10	1603 South B Street	Stockton, CA	40.00	\$346
04	Maintenance	84. District 4 - Maint. Facility 17	195 Capitola Road Extension	Santa Cruz, CA	15.00	\$130		10	Maintenance	Stockton Maintenance Station	1604 South B Street	Stockton, CA	25.00	\$216
04		75. District 4 - Maint. Facility 8	1369 Willow Avenue	Hercules, CA	12.00			L	SRRA	Westley SRRA	About 1.126 km South of County Line	Stanislaus County	17.00	
04	Maintenance	71. District 4 - Maint. Facility 4	21265 Coast Hwy	Jenner, CA	10.00				SRRA	Enoch Christoffersen SRRA	About 3.7 km South Of Turlock	Turlock, CA	14.00	
04	Maintenance Maintenance	76. District 4 - Maint. Facility 9 73. District 4 - Maint. Facility 6	11155 Noname Uno Avenue	Napa, CA Gilroy, CA	8.00 7.00	ļ		10	SRRA	John C. Erreca SRRA	About 24.2 km South Of Los Banos	Merced County	9.00 105.00	
					265.25	\$2,292		11	Div. Equipt	30. Equipment Building #18 (3101) (92.88 & 149.64)	7179 Opportunity Road	San Diego, CA	100.00	\$864
05	Facilities	5. District 5 Office Building	50 Higuera St.	San Luis Obispo, CA	73.50	\$635		11	Traff. Ops	45. TMC #5	7183 Opportunity Rd.	San Diego, CA	82.00	\$709
05	Div. Equipt	22. Equipment Building #10 (2501)	66 Madonna Road	San Luis Obispo, CA	25.00	\$216		11	Toll Bridges	125. San Diego - Coronado Bridge	Toll Plaza: Admin. Building	San Diego, CA	56.25	\$486
05	Maintenance	92. District 5 - Maint. Facility 4	3999 State Street	Santa Barbara, CA	15.00	\$130		11	Maintenance	118. District 11 - Maint. Facility 4	7181 Opportunity Road	San Diego, CA	31.50	\$272
05	Maintenance	93. District 5 - Maint. Facility 5	2201 S. Thornburg	Santa Maria, CA	8.00	\$69		11	Inspection	129. San Onofre SB I-5 Truck Inspection Facility	SB I-5	San Onofre, CA	18.75	\$162
05	Maintenance	89. District 5 - Maint. Facility 1	721 Jonata Park Road	Buellton, CA	7.00	\$60							288.50	\$2,493
05	Maintenance	90. District 5 - Maint. Facility 2	2111 Garden Road	Monterey, CA	5.00	\$43		12	Traff. Ops	46. TMC #6	6681 Marine Way	Irvine, CA	36.75	\$318
					133.50	\$1,154		12	Maintenance	119. District 12 - Maint. Facility 1	1808 North Batavia Street	Orange, CA	33.00	\$285
								12	Maintenance	Costa Mesa Maintenance Station	1090 South Bristol Street	Costa Mesa, CA	20.00	\$173
	Analysis:												89.75	\$776
	Analysis:	According to smud.org:			2200 5	total kW						Total	2200 50	\$19,874
		A 1 kW system can produce 1,40	0 - 1.600 kW hours per vear		3,679,200		per vear					ıvlaı	2233.30	φισ,0/4
		The average household in the SM		hours per year.			x 500 home	es						
	****	Ţ.				1								
	**Note:	This table represents proposed	sites and estimated values.	Sites and values v	viii cnange	auring the	aesign ph	ıase.			I		I.	



General Requirements

 Conformance with the California Solar Initiative (CSI) Program

http://www.gosolarcalifornia.org/csi/index.html



CALIFORNIA SOLAR INITIATIVE





PROGRAM HANDBOOK

CALIFORNIA PUBLIC UTILITIES COMMISSION

JULY 2009



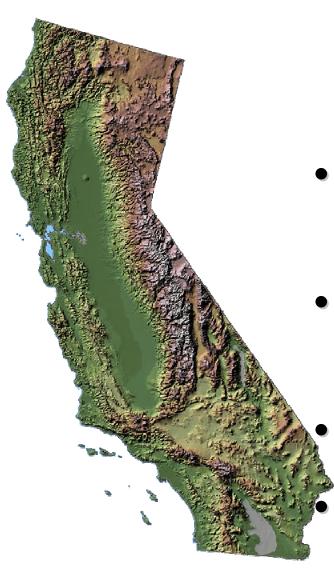












License Requirements

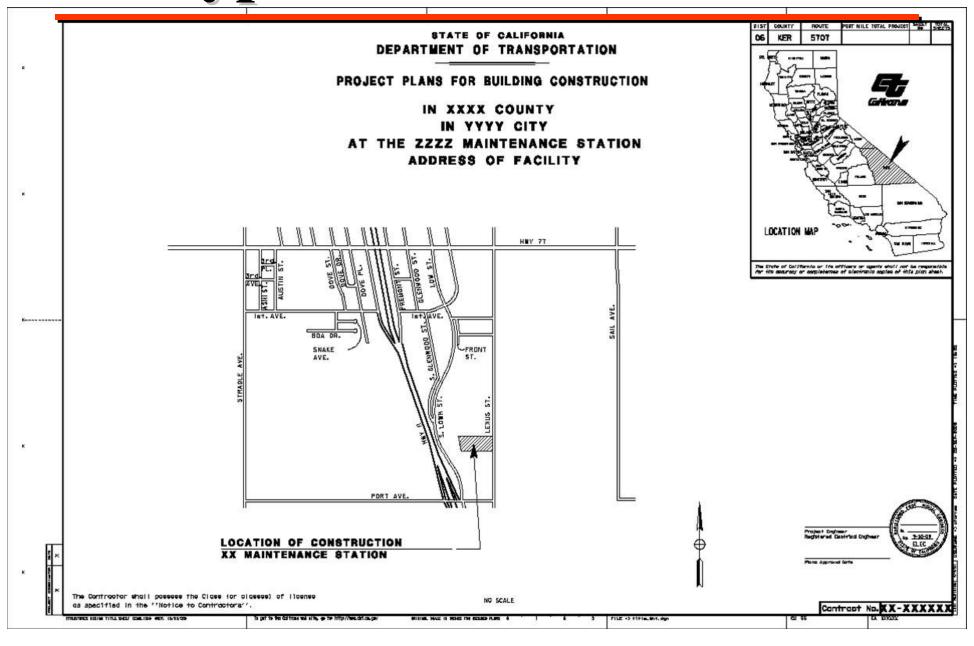
• A (General Engineering Contractor), or

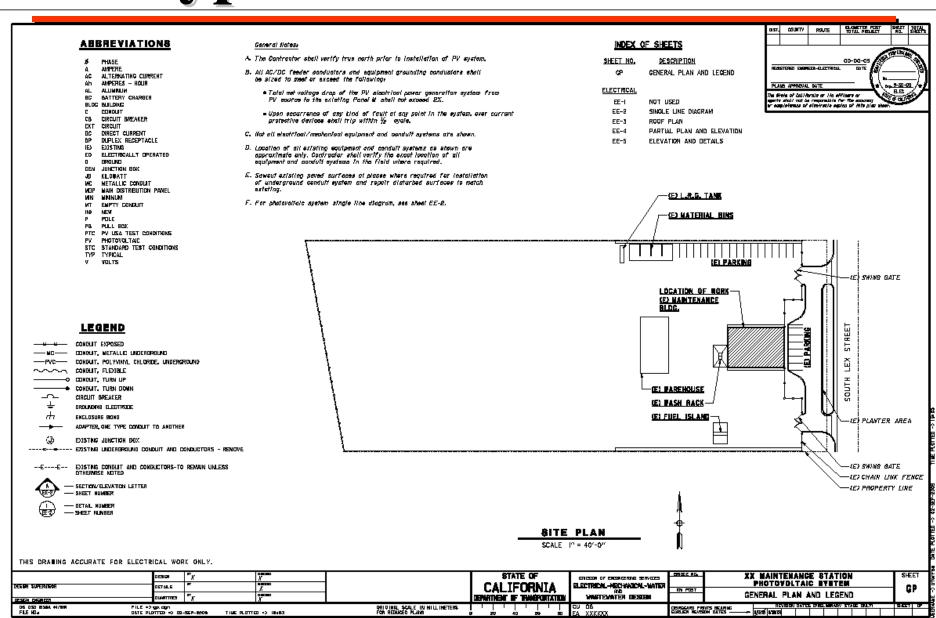
• B (General Building Contractor), or

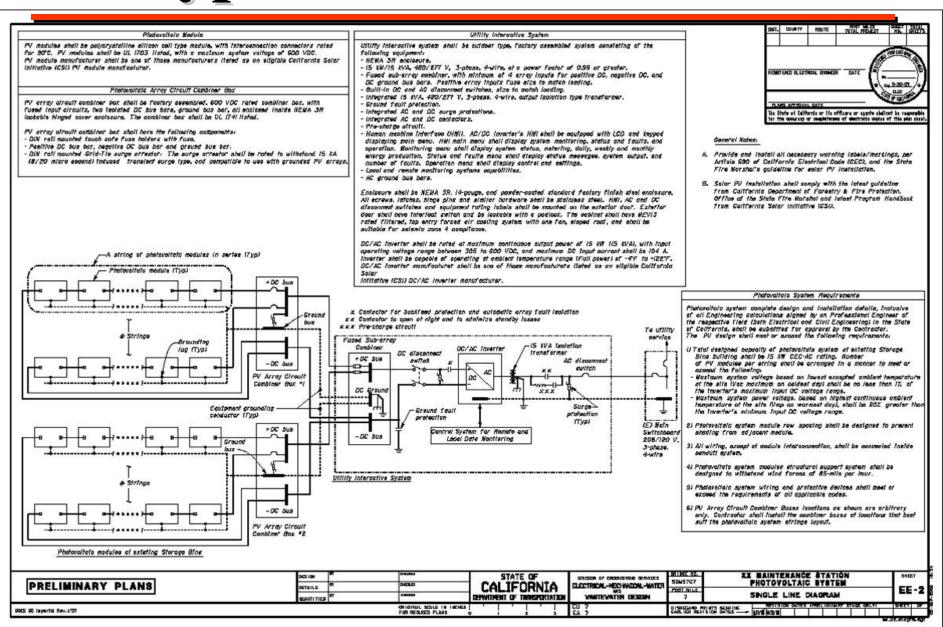
C-10 (Electrical Contractor), or

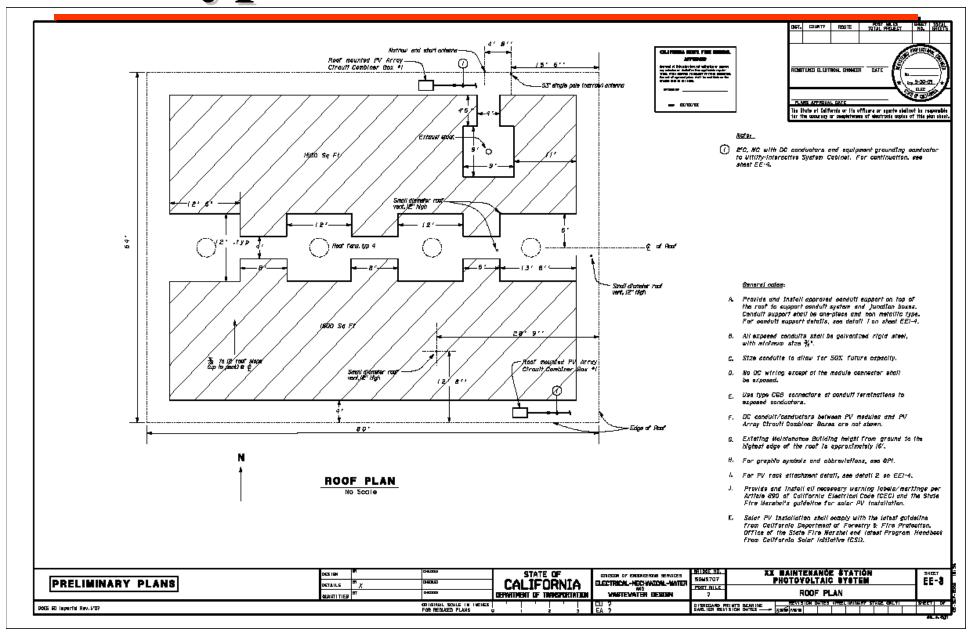
C-46 (Solar Contractor)

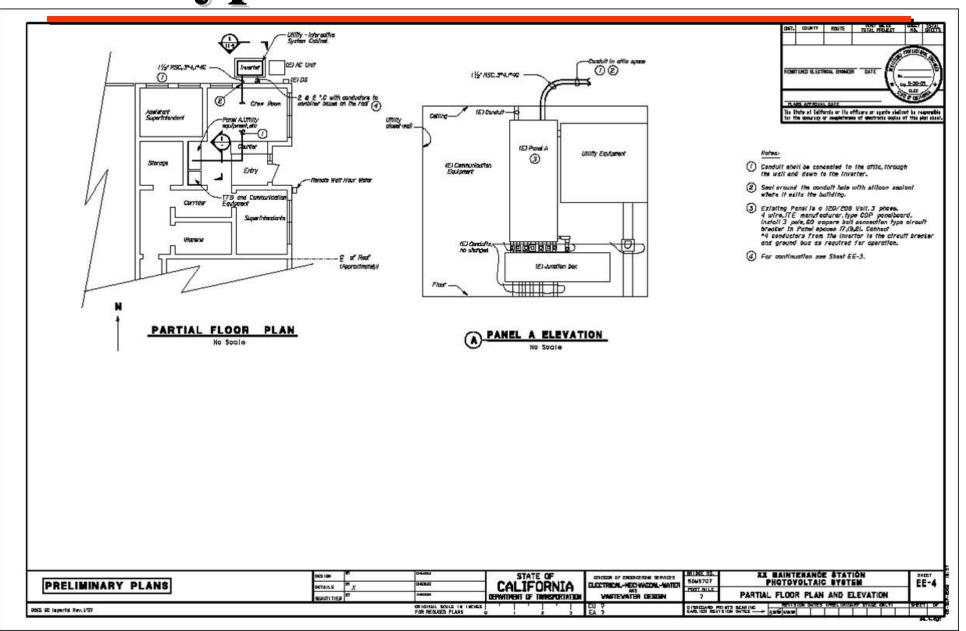
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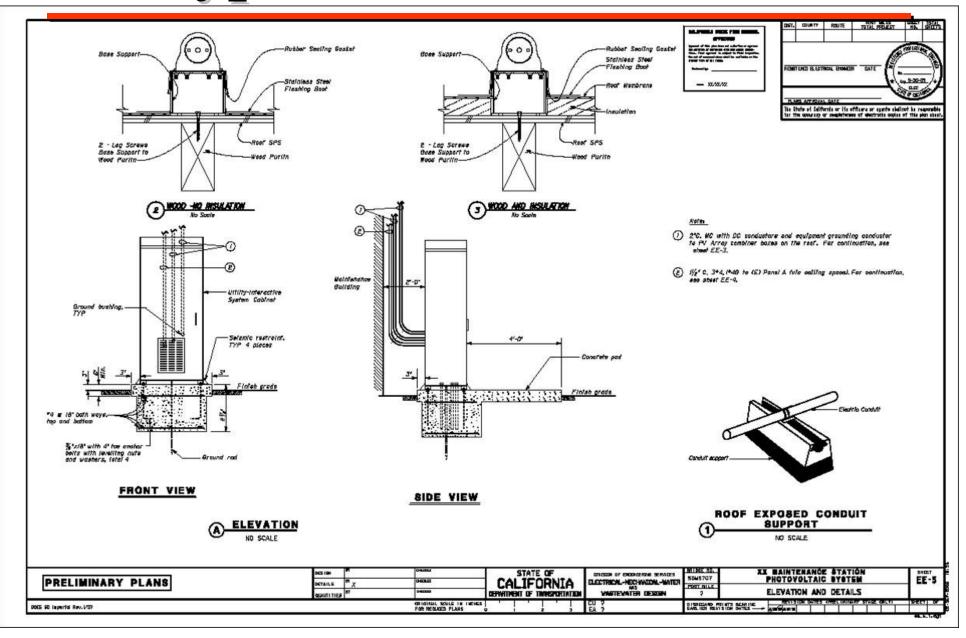














State Fire Marshal Requirements

- PV System Guidelines
- CREB Projects Will Conform
- Approved Exceptions on Plans



CALIFORNIA DEPARTMENT of FORESTRY and FIRE PROTECTION OFFICE OF THE STATE FIRE MARSHAL



SOLAR PHOTOVOLTAIC INSTALLATION GUIDELINE

(In partnership with interested local fire officials, building officials, and industry representatives)

April 22, 2008

www.osfm.fire.ca.gov/pdf/reports/solarphotovoltaicguideline.pdf



Submittal Requirements

- Delayed Start
- Electrical and Civil P.E. stamps
- Electronic Submittals and Approvals
- Equipment Approval





Material Requirements

- Buy America is N/A
- Materials on Hand

Caltrans Std Spec 9-1.07C





Access Requirements

- Temporary Storage
- Caltrans Std Spec 4-1.02
- Utility Trench Backfill
- Trenching





Inspection Requirements

- Pre-job Conference
- Benchmark Inspections
- State Fire Marshal Inspection
- Final Inspection(s)





Invoicing Requirements

- Per Site, Not Project
- Detailed / Itemized Invoice
- Submitted in Triplicate
- Additional Approvals
- Reference to the Department of Transportation, Contract Number, and Site





Blair Anderson, P.E.



Special Provisions

Standard Specifications

• Amendments to Standard Specifications





 Most of the work consists of Building Work (Section 12) of the Special Provisions

 Sections 10 through 95 of the Standard Specifications do not apply to the work in Section 12 except when specific reference is made thereto.

G Caltrans



 Runoff and control any water shall conform to the requirements of the Storm Water Pollution Prevention Program (SWPPP) and Water Pollution Control Program (WPCP)





Hierarchy of Documents, Section 5-1.04

- 1. Project Special Provisions
- 2. Project Plans
- 3. Standard Plans
- 4. Standard Specifications (Including Amendments)



Hierarchy of Documents, Section 5-1.04

5-1.04 Coordination and Interpretation of Plans, Standard Specifications, and Special Provisions

- •These Standard Specifications, the Standard Plans, project plans, special provisions, contract change orders and all supplementary documents are essential parts of the contract, and a requirement occurring in one is as binding as though occurring in all. They are intended to be complementary, and to describe and provide for a complete work.
- •Project plans shall govern over Standard Plans; Standard Plans and project plans shall govern over these Standard Specifications; and the special provisions shall govern over both these Standard Specifications and the plans.
- •Should it appear that the work to be done or any of the matters relative thereto are not sufficiently detailed or explained in these specifications, the special provisions or the plans, the Contractor shall apply to the Engineer for such further explanations as may be necessary and shall conform to them as part of the contract. In the event of any doubt or question arising respecting the true meaning of these specifications, the special provisions or the plans, reference shall be made to the Engineer, whose decision thereon shall be final.
- •In the event of any discrepancy between any drawing and the figures written thereon, the figures shall be taken as correct. Detail drawings shall prevail over general drawings.





Contracts Over \$147,000

Kris Kuhl, P.E.

Advertising and Bid Opening

Contracts advertised at:

http://www.dot.ca.gov/hq/esc/oe/weekly_ads/index.php

Bidder inquiries:

www.dot.ca.gov/hq/esc/oe/project_status/bid_inq.html

Order bid documents:

http://www.dot.ca.gov/hq/esc/oe/weekly_ads/bid_documents_via_fax_.pdf



Construction Contracting with Caltrans – How to Submit a Responsive Bid

Updated August 2009



Request for Bid Documents

	0013 (REV. 02)	2009)					Lock	Data on Form
	information by this t provide all or any pa 1798-24 of the IPA	om. The requests at of the requested of 1977, Each indi	d personal information information may dele ridual has the right up	information Practices Act of in is voluntary. The principal by processing of this form. A	DRMATION NOTICE 1977 (CNI Code Sections 179 purpose of the voluntary Inform to disclosure of personal Inform Officiation, to Inspect all persona (nation is to facilitate the proc vation will be made unless pe	easing of this for resissible under	n. The falue to Article 6, Section
				Use one sheet per in	dividual contract reques	t.		
	COUNTY, RTE, POSTMILE NO. Contract book, Not				ER SET	ON-BIDDER SET		
					Contractors) sts of Proposal and loe to Contractors and is, and project plans	Packag	(Subcontractors or Suppliers) Package consists of Notice to Contractors and Special Provisions, and project plans	
BID DATE				Do you i	need 1 set?	Indi	Indicate number of sets	
				10			2500	
BUŞINE	SS NAME	SHIPPING	ADDRESS		BUSINESS NAME	U.S. MAIL ADD	MESS	
				and the state of t				
STREET ADDRESS REQUIRED FOR SHIPPING				STREET ADDRESS REQUIRED FOR SHIPPING				
CITY			STATE	ZIP	OTY		STATE	ZIP
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mail yo	1120 "N" ST SACRAMEN	r sets can be p or American E		eck, VISA,				
Bidder Master BID DC	1120 "N" ST SACRAMEN and Non-Bidde card, Discover, CUMENTS AR	r sets can be p or American E E NOT REFU o the bid open	xpress. NDABLE.	eck, VISA, ay not receive the	PLANS COUNTER I	USE ONLY		

Advertising and Bid Opening



How to Submit Responsive Bids

- Complete all bid items
- Sign the bid
- Provide bid bond or cashier's check for 10% of bid with the bid
- Possess appropriate contractor's license at time of bid

Advertising and Bid Opening



Bid Openings are Public

- Time & Place in "Notice to Bidders".
- Teleconference #: 1-203-875-7893, participant code 974188#
- Bid Results: Call (916) 654-5500 after 5 pm on bid day

Contract Award & Approval



Contract Award Process

- Bids verified & reviewed for responsiveness
- Small Business Preference applied- 5% up to \$50,000
- DVBE incentive 1% to 5% up to \$100,000
- Final contract financing approved based on low responsive bid

Contract Award & Approval



Contract Award Process

• Bids exceeding per site limits will be rejected

• Bid protests or other issues could delay award

 Award process normally takes 3-4 weeks from bid opening

Contract Award & Approval



Contract Approval Process

 Contractor receives contracts for execution 1 day after award

 Return executed contracts with payment and performance bonds within 10 business days

Contract Award & Approval



Contract Approval Process

- Include insurance documents
- If bonds and insurance are OK, contract is approved by Caltrans





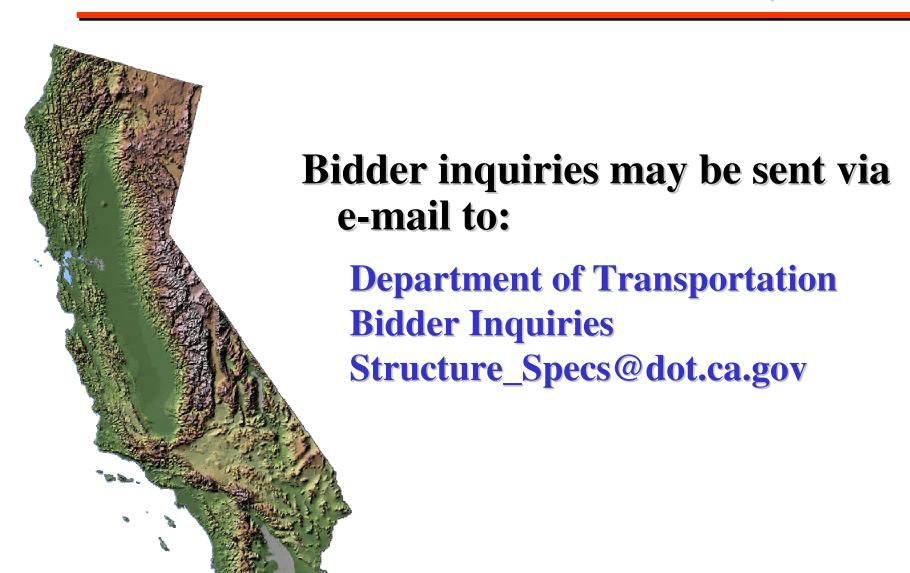
Lindy Wilson



 Solicitation for Bid will be sent to Certified Small Business Contractors

(Government Code 14838.7)

• Bids from at Least 2 Certified SB, or 2 DVBE Firms





How to Submit Responsive Bids

- Complete all Bid Items and/or Projects According to Bid Sheet
- Signature on Bid Sheet
- Provide Bid Bond or Cashier's Check for 10% of Bid with the bid

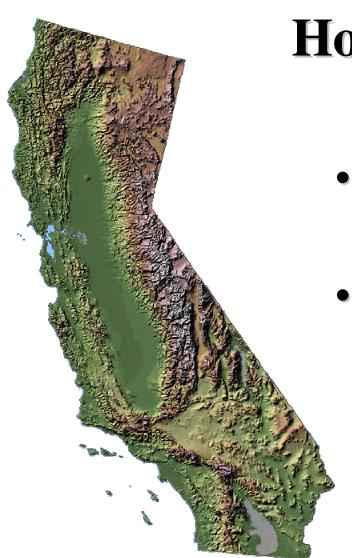


How to Submit Responsive Bids

 Possess Appropriate Contractor's License at Time of Bid

• Submit Bid on or Before the Bid Due Date

• Bids are Submitted to the Contract Analyst



How to Submit Responsive Bids

Bids are NOT Accepted by fax

 Must be Certified Small Business at time of Bid Due Date and Time



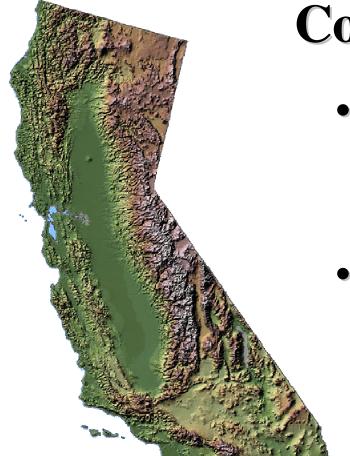
Bid Openings are Not Public

• Contact the Contract Analyst, Tracy Franco, for Bid Results at (916) 227-6111



Contract Award Process

- Bids are Verified and Reviewed for Responsiveness
- Final Contract Financing Approved Based on Lowest Responsive Bid
 - **Award Process: 1-2 Weeks**



Contract Approval Process

• Contractor Receives Contract for Signature 1-2 Business Days after Award

 Contractor Returns Signed Contract with Payment Bond and Insurance Documents within 10 days

Contract is Approved and Executed by Caltrans





Insurance Requirements

Victor Salazar, P.E.

Insurance Requirements

General Liability

- Section 7-1.12B(4)(b), Liability limits/Additional Insureds of Standard Specs
- \$1,000,000 each occurrence
- \$2,000,000 aggregate for products/completed operations
- \$2,000,000 general aggregate
- Umbrella/Excess not required

Insurance Requirements

THE CREB INSURANCE TABLE

Total Bid	For Each Occurrence ¹	Aggregate for Products/ Completed Operation	General Aggregate ²	Umbrella or excess liability
Any amount	\$1,000,000	\$2,000,000	\$2,000,000	None

- 1. Combined single limit for bodily injury and property damage.
- 2. This limit shall apply separately to the Contractor's work under this contract.

Insurance Requirements

- Automobile insurance
 - \$1,000,000 each occurrence.
 - No umbrella or excess policy
- Workers' Compensation and employer's liability insurance (per statute and Section 7-1.12B(3) of the Standard Specifications

Contract No:	Contractor:	

Checklist Documents Table

INSURANCE POLICY OR ACCORD DESCRIPTION	BINDER? YES/NO	POLICY / BINDER NUMBER.	POLICY /BINDER PERIOD	
			From	To
Commercial General Liability (CGL) Policy				
Excess (or Umbrella) Policy	N/A	N/A	N/A	N/A
Auto Insurance Accord Certificate of Liability—		Accord certificate O.K.		
Certificate of Insurance—Workers' Compensation		Accord form or State Fund certificate O.K.		
Certificate of Insurance—U.S. Longshoreman's and Harbor Workers' Compensation Act (if applicable, e.g., if over water)		Accord or binder O.K; or State Fund certificate.		
Certificate of Insurance—Jones Act (if applicable)		Accord or binder O.K.		
Railroad Protective Insurance or other Coverage Required by Special Provisions (if applicable)				

Contract No:	Contractor:

Items to Check for in Each Document

- 1. CGL Policy (Submit actual policy and accord form).
 - Name of Insurer
 - Policy Number
 - Policy Period Name of Insureds [This should match the Contractor's name]
 - Additional Insured Endorsement (should specify State of California, Department of Transportation or state something to the effect "as required by contract")
 - Policy Limits (amount is based upon Section 7-1.12B(4)(b) of the "Amendments to Standard Specifications," found in Section 1 of the contract special provisions).
 - Declarations Page
 - Self-Insurance Endorsement (if applicable)
 - CGL Policy Language (about 13 pages if using the standard ISO forms)

Contract No:	Contractor:

- 2. Self-Insured Retention (SIR) (based upon a Self-Insurance Endorsement)
 - Notice of Election to Self-Insure
 - Notification to Which Self-Insurance Applies
 - Amount of Self-Insurance
 - Declaration by CPA under Penalty of Perjury of Sufficient Funds/Resources to Cover SIR of \$50,000 or higher.
- 3. Certificate of Insurance Auto Liability (Accord form O.K. if items below are addressed).
 - Name of Insurer
 - Policy Number
 - Policy Period
 - Policy Coverage (must show coverage for all owned, hired and nonowned automobiles)
 - Name of Insureds [This should match the Contractor's name]
 - Policy Limits (amount is based upon Section 7-1.12B(5) of the Standard Specifications

Contract No:	Contractor:	
Contract No:	Contractor:	· · · · · · · · · · · · · · · · · · ·

- 4. Certificate of Insurance—Workers' Compensation (Accord form O.K. if items below are addressed, and if with State Fund, must submit State Fund issued certificate of insurance.
 - Name of Insurer
 - Policy Number
 - Policy Period
 - Name of Insureds [This should match the Contractor's name]
 - Policy Limits (amount is based upon Section 7-1.12B(5) of the Standard Specifications

- 5. A. M. Best financial strength rating meeting requirements of Section 7-1.12B(2), "Casualty Insurance," of the Standard specifications. . Provide information required in special provisions and on an accord form addressing items below).
 - Insurer is an A.M. Best rated A- or better. (A.M. Best rating and financial strength category can be found at: http://www3.ambest.com)of Insurer
 - Insurer's A.M. Best Financial Size Category is VII or better. (Double click on company name to view its A.M. Best Financial Size Category).

FOR ITEMS 1-5, A BINDER MAY BE ACCEPTED IN-LIEU OF AN INSURANCE POLICY.





How to do Business with Caltrans

Ann Blazina

How to do Business with Caltrans



Summary



- Project Summary
- Project Specification
- Contracts Over \$147,000
- Contracts Under \$147,000
- Insurance Requirements
- How to do Business with Caltrans



Questions



